EXHIBIT 2

IEDB Analysis Resource

Antibody Epitope Prediction | Example Sequences | Tutorial | External Links

Disclaimer | Reference | Contact
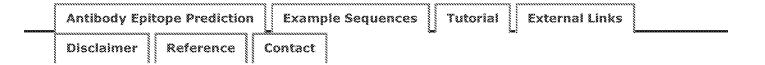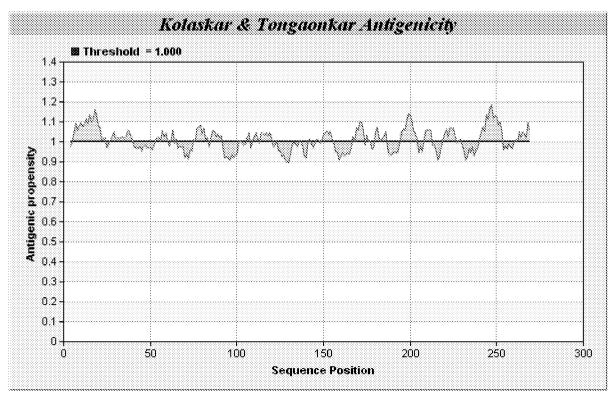
Kolaskar & Tongaonkar Antigenicity

Sequence:

```
  1 MNTIFKISAL TLSAALALSA CGKKEAAPAS ASEPAAASAA QGDTSSIGST MQQASYAMGV
 61 DIGRSLKQMK EQGAEIDLKV FTDAMQAVYD GKEIKMTEEQ AQEVMMKFLQ EQQAKAVEKH
121 KADAKANKEK GEAFLKENAA KDGVKTTASG LQYKITKQGE GKQPTKDDIV TVEYEGRLID
181 GTVFDSSKAN GGPATFPLSQ VIPGWTEGVR LLKEGGEATF YIPSNLAYRE QGAGEKIGPN
241 ATLVFDVKLV KIGAPENAPA KQPDQVDIKK VN
```

Center position: 4   **Window size:** 7

Average: 1.010   **Minimum:** 0.897   **Maximum:** 1.184   **Threshold:** 1.000

Click here to view plotted values in table format

Predicted peptides:

No.	Start Position	End Position	Peptide	Peptide Length
1	5	24	FKISALTLSAALALSACGKK	20

2	27	39	APASASEPAAASA	13
3	53	60	QASYAMGV	8
4	77	83	DLKVFTD	7
5	85	91	MQAVYDG	7
6	114	120	AKAVEKH	7
7	149	155	SGLQYKI	7
8	167	173	DDIVTVE	7
9	180	186	DGTVFDS	7
10	195	204	TFPLSQVIPG	10
11	219	226	TFYIPSNL	8
12	240	253	NATLVFDVKLVKIG	14

Reference: Kolaskar AS, Tongaonkar PC. A semi-empirical method for prediction of antigenic determinants on protein antigens. FEBS Lett. 1990 Dec 10;276(1-2):172-4.

Scale values: A:1.064, C:1.412, D:0.866, E:0.851, F:1.091, G:0.874, H:1.105, I:1.152, K:0.93, L:1.25, M:0.826, N:0.776, P:1.064, Q:1.015, R:0.873, S:1.012, T:0.909, V:1.383, W:0.893, Y:1.161